

## Product datasheet for **RG228662**

### TNIK (NM\_001161566) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TNIK (NM_001161566) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TNIK
Synonyms:	MRT54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228662 representing NM_001161566 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATGAAATAGATCTCTCGGCTCTGAGGGACCCCGCAGGGA  
TCTTTGAATTGGTGAACCTGTTGGAAATGGAACATACGGCAAGTTTATAAGGGTCGTATGTCAAAC  
GGGCCAGCTTGCAGCCATCAAGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAAT  
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CACCAGGCATGGATGACCAACTTTGGTTGGTGATGGAGTTTTGTGGTGCTGGCTCTGTCACCGACCTGAT  
CAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAAATCTACGGGG  
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AACAGAAATTCATGATGAACCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG228662 representing NM\_001161566  
 Red=Cloning site Green=Tags(s)

MASDSPARSLDEIDL SALRDPAGIFELVELVGNNGTYGQVYKGRHVKTGQLAAIKVMDVTGDDEEEIKQEI  
 NMLKKYSHHRNIATYYGAFIKKNPPGMDDQLWL VMEFCGAGSVTDLIKNTKGNTLKEEWIAYICREILRG  
 LSHLHQHKVIHRDIKQNVLL TENAEVKLVDFGVSAQLDRTVGRRNTFIGTPYWMAPEVIACDENPDATY  
 DFKSDLWSLGITAIEMAEGAPPLCDMHPMRALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPAT  
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 VQQSHSPAGTPTEGLGRVSTHSQEMDSGTEYGMGSSTKASFTPFVDPVYQTSPTDEDEDEESSAAALF  
 TSELLRQEQAKLNEARKISVVVNPTNIRPHSDTPEIRKYKRFNSEILCAALWGVNLLVGTENGLMLLD  
 RSGQGKYNL INRRRFQQMDVLEGLNVLVTISGKKNLKVYYLSWLRNRILHNDPEVEKKQGWITVGDLE  
 GCIIHYKVKYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDL TVEEQRLKVIKFGSH  
 TGFHVIDVDSGNSYDIYIPSHIQGNITPHAIIVLPKTDGMEMLVCYEDEGVYVNTYGRITKDVVLQWGM  
 PTSVAYIHSNQIMGWGEKAIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGSSSQVFFMTL  
 NRNSMMNW

TRTRPLE - GFP Tag - V

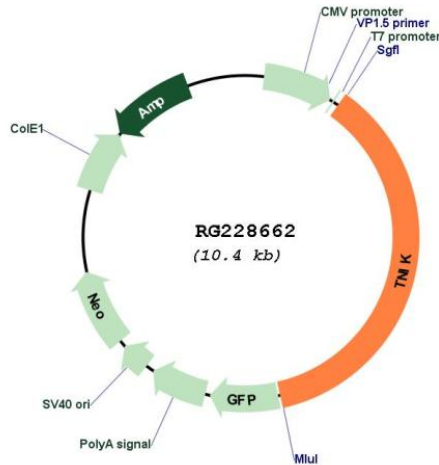
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001161566

ORF Size: 3804 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001161566.2](#)

RefSeq Size: 5540 bp

RefSeq ORF: 3807 bp

Locus ID: 23043

UniProt ID: [Q9UKE5](#)

Cytogenetics: 3q26.2-q26.31

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** Wnt signaling plays important roles in carcinogenesis and embryonic development. The protein encoded by this gene is a serine/threonine kinase that functions as an activator of the Wnt signaling pathway. Mutations in this gene are associated with an autosomal recessive form of cognitive disability. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2017]